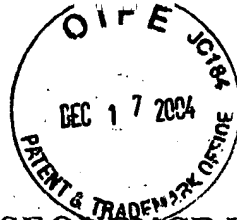
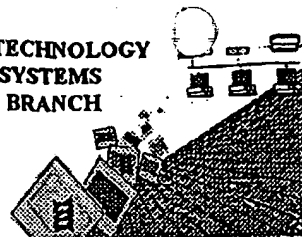


BEST AVAILABLE COPY



BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/840,139A  
Source: 1 Fwp  
Date Processed by STIC: 7/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chknote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

## RAW SEQUENCE LISTING

DATE: 07/29/2004

PATENT APPLICATION: US/10/840,139A

TIME: 09:24:12

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

3 <110> APPLICANT: Schutte, Brian C.  
 4 Murray, Jeffrey C.  
 5 Kondo, Shinji  
 6 Dixon, Michael J.  
 8 <120> TITLE OF INVENTION: IRF6 POLYMORPHISMS ASSOCIATED WITH CLEFT LIP AND/OR PALATE  
 10 <130> FILE REFERENCE: P06215US01  
 :--> 12 <140> CURRENT APPLICATION NUMBER: US/10/840,139A  
 13 <141> CURRENT FILING DATE: 2004-05-06  
 15 <150> PRIOR APPLICATION NUMBER: US 60/468,191  
 16 <151> PRIOR FILING DATE: 2003-05-06  
 18 <160> NUMBER OF SEQ ID NOS: 4  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 2171  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: variation  
 30 <222> LOCATION: (3)..(3)  
 31 <223> OTHER INFORMATION: G to A (exon 3)  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: variation  
 35 <222> LOCATION: (5)..(5)  
 36 <223> OTHER INFORMATION: C to T (exon 3)  
 38 <220> FEATURE:  
 39 <221> NAME/KEY: variation  
 40 <222> LOCATION: (17)..(17)  
 41 <223> OTHER INFORMATION: 17ins(C) (exon 3)  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: 5'UTR  
 45 <222> LOCATION: (48)..(48)  
 47 <220> FEATURE:  
 48 <221> NAME/KEY: variation  
 49 <222> LOCATION: (49)..(49)  
 50 <223> OTHER INFORMATION: 49del (CAGGTGGATAGTGGCC (exon 3)  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: variation  
 54 <222> LOCATION: (52)..(52)  
 55 <223> OTHER INFORMATION: G to A (exon 3)  
 57 <220> FEATURE:  
 58 <221> NAME/KEY: variation  
 59 <222> LOCATION: (53)..(53)  
 60 <223> OTHER INFORMATION: T to C (exon 3)

pp1-5

Does Not Comply  
Corrected Diskette Neededdo you mean A to G? G is at location 3  
(p.5)

? G is at location 53

## RAW SEQUENCE LISTING

DATE: 07/29/2004

PATENT APPLICATION: US/10/840,139A

TIME: 09:24:12

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

62 <220> FEATURE:  
 63 <221> NAME/KEY: variation  
 64 <222> LOCATION: (69)..(69)  
 65 <223> OTHER INFORMATION: C to A (exon 3)  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: variation  
 69 <222> LOCATION: (115)..(115)  
 70 <223> OTHER INFORMATION: C to G (exon 3)  
 72 <220> FEATURE:  
 73 <221> NAME/KEY: variation  
 74 <222> LOCATION: (178)..(178)  
 75 <223> OTHER INFORMATION: T to G (exon 4)  
 77 <220> FEATURE:  
 78 <221> NAME/KEY: variation  
 79 <222> LOCATION: (182)..(182)  
 80 <223> OTHER INFORMATION: C to G (exon 4)  
 82 <220> FEATURE:  
 83 <221> NAME/KEY: variation  
 84 <222> LOCATION: (197)..(197)  
 85 <223> OTHER INFORMATION: A to C (exon 4)  
 87 <220> FEATURE:  
 88 <221> NAME/KEY: variation  
 89 <222> LOCATION: (202)..(202)  
 90 <223> OTHER INFORMATION: C to T (exon 4)  
 92 <220> FEATURE:  
 93 <221> NAME/KEY: variation  
 94 <222> LOCATION: (208)..(208)  
 95 <223> OTHER INFORMATION: G to C (exon 4)  
 97 <220> FEATURE:  
 98 <221> NAME/KEY: variation  
 99 <222> LOCATION: (226)..(226)  
 100 <223> OTHER INFORMATION: C to T (exon 4)  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: variation  
 104 <222> LOCATION: (244)..(244)  
 105 <223> OTHER INFORMATION: C to A (exon 4)  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: variation  
 109 <222> LOCATION: (250)..(250)  
 110 <223> OTHER INFORMATION: C to T (exon 4)  
 112 <220> FEATURE:  
 113 <221> NAME/KEY: variation  
 114 <222> LOCATION: (251)..(251)  
 115 <223> OTHER INFORMATION: G to A (exon 4)  
 117 <220> FEATURE:  
 118 <221> NAME/KEY: variation  
 119 <222> LOCATION: (262)..(262)  
 120 <223> OTHER INFORMATION: A to C (exon 4)  
 122 <220> FEATURE:

? "A" is at location 178

? "A" is at location 182

do you mean C to A? "A" is at location 197.

do you mean C to G? "G" is at location 208.

do you mean A to G? "G" is at location 251.

? "T" is at location 262

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/840,139A

DATE: 07/29/2004

TIME: 09:24:12

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

123 <221> NAME/KEY: CDS  
 124 <222> LOCATION: (264)..(1667)  
 126 <220> FEATURE:  
 127 <221> NAME/KEY: variation  
 128 <222> LOCATION: (265)..(265) ? *T is at 265*  
 129 <223> OTHER INFORMATION: A to G (exon 4)  
 131 <220> FEATURE:  
 132 <221> NAME/KEY: variation  
 133 <222> LOCATION: (268)..(268) ? *C is at 268.*  
 134 <223> OTHER INFORMATION: A to G (exon 4)  
 136 <220> FEATURE:  
 137 <221> NAME/KEY: variation  
 138 <222> LOCATION: (274)..(274) ? *A is at 274*  
 139 <223> OTHER INFORMATION: G to T (exon 4)  
 141 <220> FEATURE:  
 142 <221> NAME/KEY: variation  
 143 <222> LOCATION: (292)..(292) ? *T is at 292*  
 144 <223> OTHER INFORMATION: G to C (exon 4)  
 146 <220> FEATURE:  
 147 <221> NAME/KEY: variation  
 148 <222> LOCATION: (352)..(352) ? *A is at 352*  
 149 <223> OTHER INFORMATION: C to T (exon 4)  
 151 <220> FEATURE:  
 152 <221> NAME/KEY: variation  
 153 <222> LOCATION: (466)..(466)  
 154 <223> OTHER INFORMATION: 466ins(C) (exon 5)  
 156 <220> FEATURE:  
 157 <221> NAME/KEY: variation  
 158 <222> LOCATION: (558)..(558)  
 159 <223> OTHER INFORMATION: C to A (exon 6)  
 161 <220> FEATURE:  
 162 <221> NAME/KEY: variation  
 163 <222> LOCATION: (576)..(576)  
 164 <223> OTHER INFORMATION: G to A (exon 6)  
 166 <220> FEATURE:  
 167 <221> NAME/KEY: variation  
 168 <222> LOCATION: (634)..(634)  
 169 <223> OTHER INFORMATION: 634ins(CCAC) (exon 6)  
 171 <220> FEATURE:  
 172 <221> NAME/KEY: variation  
 173 <222> LOCATION: (657)..(657)  
 174 <223> OTHER INFORMATION: 657del(CTCTCTCCC)ins(TA) (exon 6)  
 176 <220> FEATURE:  
 177 <221> NAME/KEY: variation  
 178 <222> LOCATION: (744)..(744)  
 179 <223> OTHER INFORMATION: 744del(CTGCC) (exon 7)  
 181 <220> FEATURE:  
 182 <221> NAME/KEY: variation  
 183 <222> LOCATION: (749)..(749)

*Please ensure locations  
 are correct in this  
 and subsequent  
 sequences.*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/840,139A

DATE: 07/29/2004

TIME: 09:24:12

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

184 <223> OTHER INFORMATION: G to A (exon 7)  
186 <220> FEATURE:  
187 <221> NAME/KEY: variation  
188 <222> LOCATION: (759)..(759)  
189 <223> OTHER INFORMATION: T to A (exon 7)  
191 <220> FEATURE:  
192 <221> NAME/KEY: variation  
193 <222> LOCATION: (795)..(795)  
194 <223> OTHER INFORMATION: 795del(C) (exon 7)  
196 <220> FEATURE:  
197 <221> NAME/KEY: variation  
198 <222> LOCATION: (818)..(818)  
199 <223> OTHER INFORMATION: A to G (exon 7)  
201 <220> FEATURE:  
202 <221> NAME/KEY: variation  
203 <222> LOCATION: (842)..(842)  
204 <223> OTHER INFORMATION: 842del(A) (exon 7)  
206 <220> FEATURE:  
207 <221> NAME/KEY: variation  
208 <222> LOCATION: (870)..(870)  
209 <223> OTHER INFORMATION: 870del(CACTAGCAAGCTGCTGGAC)lns(A) (exon 7)  
211 <220> FEATURE:  
212 <221> NAME/KEY: variation  
213 <222> LOCATION: (881)..(881)  
214 <223> OTHER INFORMATION: T to C (exon 7)  
216 <220> FEATURE:  
217 <221> NAME/KEY: variation  
218 <222> LOCATION: (889)..(889)  
219 <223> OTHER INFORMATION: G to A (exon 7)  
221 <220> FEATURE:  
222 <221> NAME/KEY: variation  
223 <222> LOCATION: (958)..(958)  
224 <223> OTHER INFORMATION: A to G (exon 7)  
226 <220> FEATURE:  
227 <221> NAME/KEY: variation  
228 <222> LOCATION: (961)..(961)  
229 <223> OTHER INFORMATION: G to A (exon 7)  
231 <220> FEATURE:  
232 <221> NAME/KEY: variation  
233 <222> LOCATION: (974)..(974)  
234 <223> OTHER INFORMATION: G to A (exon 7)  
236 <220> FEATURE:  
237 <221> NAME/KEY: variation  
238 <222> LOCATION: (1034)..(1034)  
239 <223> OTHER INFORMATION: T to C (exon 7)  
241 <220> FEATURE:  
242 <221> NAME/KEY: variation  
243 <222> LOCATION: (1040)..(1040)  
244 <223> OTHER INFORMATION: G to T (exon 7)

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/840,139A

DATE: 07/29/2004

TIME: 09:24:12

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

246 <220> FEATURE:  
 247 <221> NAME/KEY: variation  
 248 <222> LOCATION: (1106)..(1106)  
 249 <223> OTHER INFORMATION: T to C (exon 8)  
 251 <220> FEATURE:  
 252 <221> NAME/KEY: variation  
 253 <222> LOCATION: (1122)..(1122)  
 254 <223> OTHER INFORMATION: C to G (exon 8)  
 256 <220> FEATURE:  
 257 <221> NAME/KEY: variation  
 258 <222> LOCATION: (1162)..(1162)  
 259 <223> OTHER INFORMATION: A to G (exon 8)  
 261 <220> FEATURE:  
 262 <221> NAME/KEY: variation  
 263 <222> LOCATION: (1177)..(1177)  
 264 <223> OTHER INFORMATION: C to T (exon 8)  
 266 <220> FEATURE:  
 267 <221> NAME/KEY: variation  
 268 <222> LOCATION: (1234)..(1234)  
 269 <223> OTHER INFORMATION: C to T (exon 9)  
 271 <220> FEATURE:  
 272 <221> NAME/KEY: variation  
 273 <222> LOCATION: (1288)..(1288)  
 274 <223> OTHER INFORMATION: G to A (exon 9)  
 276 <220> FEATURE:  
 277 <221> NAME/KEY: variation  
 278 <222> LOCATION: (1381)..(1381)  
 279 <223> OTHER INFORMATION: 1381ins(C) (exon 9)  
 281 <400> SEQUENCE: 1  
 282 ggcctcgccg cacctgggct gggcaggtaa gggctggtgc gggacgggga gaggaacctg 60  
 284 cagtccttac ttgggtagag ccaggcggcc cttggctaag acgtcgagga gcctggtagc 120  
 286 gacgggtgat ctctcgctgc gacttgggtc ggagggacgt ccgcttctgg tggacagatt 180  
 288 ggcacaaagaa tctttgagcg gtcaaggcga agacaagccg actcttcaga tccctgtgga 240  
 290 cacactgcct gctcttccat atc agc ggc ctc ctc ccc cgc aga gtc cgg gga 293  
 291 Met Ala Leu His Pro Arg Arg Val Arg Leu  
 292 1 5 10  
 294 aag ccc tgg ctg gtg gcc cag gtg gat agt ggc ctc tac cct ggg ctc 341  
 295 Lys Pro Trp Leu Val Ala Gln Val Asp Ser Gly Leu Tyr Pro Gly Leu  
 296 15 20 25  
 298 atc tgg cta cag agg gac tct aaa cgc ttc cag att ccc tgg aaa cat 389  
 299 ile Trp Leu His Arg Asp Ser Lys Arg Phe Gln ile Pro Trp Lys His  
 300 30 35 40  
 302 gcc acc cgg cat agc cct caa caa gaa gag gaa aat acc att ttt aag 437  
 303 Ala Thr Arg His Ser Pro Gln Gln Glu Glu Glu Asn Thr ile Phe Lys  
 304 45 50 55  
 306 gcc tgg gct gta gag aca ggg aag tac cag gaa ggg gtg gat gac cct 485  
 307 Ala Trp Ala Val Glu Thr Gly Lys Tyr Gln Glu Gly Val Asp Asp Pro  
 308 60 65 70  
 310 gac cca gct aaa tgg aag gcc cag ctg cgc tgt gct ctc aat aag agc 533

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/840,139A

DATE: 07/29/2004

TIME: 09:24:13

Input Set : A:\IRF6\_substitute.ST25.txt

Output Set: N:\CRF4\07292004\J840139A.raw

L:12 M:270 C: Current Application Number differs, Wrong Format